


Brian Tu

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EDUCATION

University of Waterloo

Bachelor of Computer Science, Honours

Waterloo, Canada • Sep 2020 – Present

- 3.92 GPA (90.2%), President's Scholarship of Distinction

Upper Canada College

International Baccalaureate & Ontario Secondary School Diploma

Toronto, Canada • Sep 2016 – Jun 2020

- Co-Founder of Rock Band & Head of Ping Pong Club: led and organized performances, ping pong tournaments, promoted student well-being.

SKILLS

Javascript C/C++ HTML & CSS Java
Python Racket Node.js Express.js
React Socket.IO MongoDB SQL Git
jQuery Bootstrap Google GCP Heroku

Proficient in object-oriented and functional programming, RESTful APIs, and Full Stack development learned through various projects.

PROJECTS

Companion

Jan 2021

Awarded Honorable Mention @ nwHacks 2021

- A **smart social network** that allows those in times of hardship to find people to talk to, empowering positive social communication.
- Integrated **sentiment analysis** on messages and **data visualization** of client statistics to cultivate healthy relationships.
- Built with **Node.js** and **Express.js** as the back-end with **Firebase** database to track total user intent, messages, and time spent.
- Led the back-end development, created the private and group chats using **Socket.IO** to facilitate realtime chat functionality.
- **Initiated group discussions** to provide and organize ideas for product features as well as **helped team members debug code**.

Lemons Live

Oct 2020

Awarded Top 30 @ Digital Inclusion Challenge 2020

- A **real-time platform for interactive learning**, enabling teachers to engage their students by creating online team competitions.
- Built on a **MongoDB**, **Express.js**, **Node.js** stack and Tailwind UI to provide students with an engaging learning experience.
- Developed the **RESTful API** back-end and used **Socket.IO** to integrate online educative games for students and teachers.
- Competed against 1000+ students over 30+ countries.
- **Tackled issues in project ideation** and **provided suggestions and feedback** during team brainstorming and discussions.

CredID

Jan 2020

Awarded "Most Innovative Use of Tech For Good" @ UofTHacks VII

- A web app that **provides digital identities** to people without an official identity to access basic financial and medical services.
- Built using **AWS Rekognize API** that recognizes users faces to create their own identity, and **stored on the Ethereum blockchain**, allowing users to use their identity at banks and fulfill their financial needs.
- **Created and designed the front-end** of the application to provide an intuitive and simple user experience.
- **Quickly grasped front-end frameworks** and **set clear goals** amongst team members to ensure project milestones were achieved.

EXPERIENCE

TerraCycle Canada

Toronto, Canada

Operations Intern

Jun 2019 - Aug 2019

- Built a user interface in Excel using VBA to help warehouse workers **automate the creation of custom shipment labels** for products, resulting in **83% less time** needed to create labels.
- Developed a **chrome extension** used by the Director of Operations to download label images from multiple tabs at once to **eliminate manual work**.
- Coded macros in Excel using VBA to organize data of TerraCycle clients, such as monthly audits.

INTERESTS

Hackathons

- Hacker at Hack the North, nwHacks 2021, Execute 2020, Digital Inclusions Challenge 2020, UofTHacksVII, Citizen Hacks, MasseyHacks V, BLGHack4Change

Hobbies

- (Sports) soccer, basketball, and biking; (Music) guitar (6+ years) and music production; (DIY) guitar & mechanical keyboard